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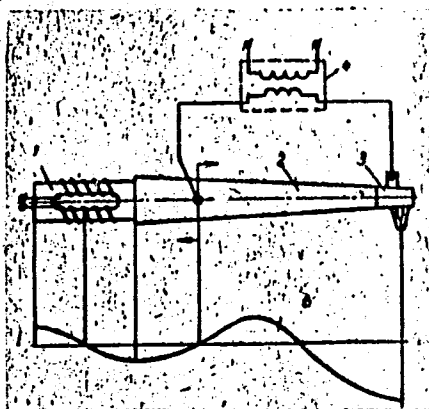


Fig. 1. Ultrasonic welder for microparts.
1 - generator; 2 - waveguide; 3 - welding section;
4 - transformer

SUB CODE: 13/

SUBM DATE: 22Dec64/

Card 2/2 *UVR*

GREBTSOV, Grigoriy Ivanovich, kand. ekonom. nauk; KOMAROVA, T.F., red.;
SAVCHENKO, Ye.V., tekhn. red.

[Improve the use of ferrous metal scrap] Uluchshit' ispol'zovanie loma chernykh metallov. Moskva, Izd-vo Znanie, " 1960.
22 p. (Vsesoiuznoe obshchestvo po rasprostraneniю politicheskikh i nauchnykh znaniy. Ser. 4; Nauka i tekhnika, no. 26).
(Scrap metals) (MIRA 13:9)

GREBTSOV, G.I., red.; KARPOV, P.P., red.; KALMYK, V.A., red.; KHOLIN,
I.A., red.; PONOMAREVA, A.A., tekhn.red.

[Material balances in the national economic plan] Material'nye
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1960. 248 p. (MIRA 13:8)
(Russia--Economic policy)

GREBTSOV, G.I., kand. ekon. nauk, dots.; SMEKHOV, B.M., kand. ekon. nauk,
dots.; SMOLYAR, L.I., starshiy prepodavatel'; GRANEERG, A.G.;
~~AGANBEGYAN~~, A., kand. ekon. nauk, red.; KONIKOV, L.A., red.;
GERASIMOVA, Ye.S., tekhn. red.

[Principles of working out an interbranch balance] Osnovy raz-
rabotki mezhotraslevogo balansa; uchebnoe posobie. [By] G.I. Greb-
tsov i dr. Moskva, Ekonomizdat, 1962. 278 p. (MIRA 16:3)

1. Vychislitel'nyy tsentr Gosudarstvennogo nauchno-ekonomicheskogo
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(Russia—Economic policy)
(Programming (Electronic computers))

BREYEV, M.V., doktor ekon. nauk; SILIN, V.A.; BYCHEK, N.R., kand. ekon. nauk; GREBTSOV, G.I., kand. ekon. nauk; ITKINA, A.S., kand. ekon. nauk; KOKOREV, M.V., kand. ekon. nauk; KOMIN, A.N., kand. ekon. nauk; LIPSITS, V.B., kand. ekon. nauk; OZORNOV, A.K., kand. ekon. nauk; ORLOV, N.M., st. prepod.; SEREDNITSKAYA, Ye.K., kand. ekon. nauk; SMEKHOV, B.M., doktor ekon. nauk; FEL'D, S.D., kand. ekon. nauk; LISOV, V.Ye., red.; TARASOVA, T.K., mlad. red.; GERASIMOVA, Ye.S., tekhn. red.

[Planning the national economy of the U.S.S.R.] Planirovani
narodnogo khoziaistva SSSR. Moskva, Ekonomizdat, 1963. 621 p.
(MIRA 16:8)

1. Moscow. Institut narodnogo khozyaystva.
(Russia--Economic policy)

Grebtsov N.

✓ Factors affecting the composition of mare milk. N. Grebtsov. *Izvest. Moskov. Zoolekh. Inst. Konevodstva* 1954, No. 12, 10-19; *Referat. Zhur. Khim., Biol. Khim.* 1955, No. 3920. —Milk of mares receiving oats contained more butterfat and dry substance and had a higher sp. gr. than milk from mares receiving none. The first 10 days of lactation showed a reduction in the content of dry substance, acidity, and sp. gr. Between 80th-170th day of lactation sp. gr. increased and butterfat decreased. The morning milk contained less butterfat and more dry substance and had a higher sp. gr. than evening milk. The compn. of mare milk may differ with the breed of horses.
B. S. Levine

BALYKOV, V.M., laureat Stalinskoy premii; GREBTSOV, N.V., laureat Stalinskoy premii; KHORIN, V.N., inzhener, laureat Stalinskoy premii.

"The KKP-1 combine for high dip coal seams." Mekh.trud.rab. 7 no.6:47
Je '53. (MLRA 6:6)

(Mining machinery--Bibliography)

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ALEKSANDROV, B.F., inzh.; BALLYKOV, V.M., inzh.; BARANOVSKIY, F.I., inzh.;
BOGUTSKIY, N.V., inzh.; BUN'KO, V.A., kand.tekhn.nauk, dotsent;
VAVILOV, V.V., inzh.; VOLOTKOVSKIY, S.A., prof., doktor tekhn.nauk;
GRIGOR'YEV, L.Ya., inzh.; GRIDIN, A.D., inzh.; ZARMAN, L.N., inzh.;
KOVALEV, P.F., kand.tekhn.nauk; KUZNETSOV, B.A., kand.tekhn.nauk,
dotsent; KUSNITSYN, G.I., inzh.; LATYSHEV, A.F., inzh.; LEYBOV,
R.M., doktor tekhn.nauk, prof.; LEYTES, Z.M., inzh.; LISITSYN, A.A.,
inzh.; LOKHANIN, K.A., inzh.; LYUBIMOV, B.N., inzh.; MASHKEVICH,
K.S., inzh.; MALKHAS'YAN, R.V.; MILOSERDIN, M.M., inzh.; MITNIK,
V.B., kand.tekhn.nauk; MIKHEYEV, Yu.A., inzh.; PARAMONOV, V.I.,
inzh.; ROMANOVSKIY, Yu.G., inzh.; RUBINOVICH, Ye.Ye., inzh.;
SAMOYLYUK, N.D., kand.tekhn.nauk; SMEKHOV, V.K., inzh.; SMOLDY-
REV, A.Ye., kand.tekhn.nauk; SNAGIN, V.T., inzh.; SNAGOVSKIY,
Ye.S., kand.tekhn.nauk; FEYGIN, L.M., inzh.; FRENKEL', B.B., inzh.;
FURMAN, A.A., inzh.; KHORIN, V.N., dotsent, kand.tekhn.nauk; CHET-
VEROV, B.M., inzh.; CHUGUNIKHIN, S.I., inzh.; SHELKOVNIKOV, V.N.,
inzh.; SHIRYAYEV, B.M., inzh.; SHISHKIN, N.P., kand.tekhn.nauk;
SHPIL'BERG, I.L., inzh.; SHORIN, V.G., dotsent, kand.tekhn.nauk;
SHTOKMAN, I.G., doktor tekhn.nauk; SHURIS, N.A., inzh.; TERPIGOREV,
A.M., glavnyy red.; TOPCHIIYEV, A.V., otv.red.toma; LIVSHITS, I.I.,
zamestitel' otv.red.; ABRAMOV, V.I., red.; LADYGIN, A.M., red.;
MOROZOV, R.N., red.; OZERNOY, M.I., red.; SPIVAKOVSKIY, A.O.,
red.; FAYISOVICH, I.L., red.; ARKHANGEL'SKIY, A.S., inzh., red.;

(Continued on next card)

ALEKSANDROV, B.F.---(continued) Card 2.

BELYAYEV, V.S., inzh., red.; BUKHANOVA, L.I., inzh., red.; VLASOV, V.M., inzh., red.; GLADILIN, L.V., prof., doktor tekhn.nauk, red.; GREBTSOV, N.V., inzh., red.; GRECHISHKIN, F.G., inzh., red.; GON-CHAREVICH, I.F., kand.tekhn.nauk, red.; GUDALOV, V.P., kand.tekhn.nauk, red.; IGNATOV, N.N., inzh., red.; LOMAKIN, S.M., dotsent, kand.tekhn.nauk, red.; MARTYNOV, M.V., dotsent, kand.tekhn.nauk, red.; POVOLOTSKIY, I.A., inzh., red.; SVETLICHNYY, P.L., inzh., red.; SAL'-TSEVICH, L.A., kand.tekhn.nauk, red.; SPERANTOV, A.V., kand.tekhn.nauk, red.; SHETLER, G.A., inzh., red.; ABARBARCHUK, F.I., red.izd-va; PROZOROVSKAYA, V.L., tekhn.red.; KONDRAT'YEVA, M.A., tekhn.red.

[Mining; an encyclopedic handbook] Gornoe delo; entsiklopedicheskiy spravochnik. Glav.red.A.M.Terpigorev. Chleny glav.redaktsii A.I. Baranov i dr. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gornomu delu. Vol.7. [Mining machinery] Gornye mashiny. Redkol.toma A.V.Topchiev i dr. 1959. 638 p. (Mining machinery) (MIRA 13:1)

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redaktor

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tractor station workers] Oplata truda v mashinno-traktornykh
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SUSHCHEVSKIY, M.G., glavnyy metodist; UDACHIN, D.A.; TERENT'YEV, N.N.,
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2. Direktor pavil'ona (for Udachin)
(Moscow--Agricultural exhibitions)

KUZNETSOV, Iosif Timofeyevich; GHEBTSOV, P.P., redaktor; ZUBRILINA, Z.P.,
tekhnicheskiiy redaktor

[Business accounting and the profit factor at machine-tractor stations]
Khozraschet i rentabel'nost' MTS. Moskva, Gos. izd-vo sel'khoz.
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(Machine-tractor station--Accounting)

RAZUVAYEV, Aleksandr Aleksandrovich; SAPUKHIN, Aleksandr Aleksandrovich;
GRIBTSOV, P.P., redaktor; SOKOLOVA, N.M., tekhnicheskiy redaktor

[The power of an example] Sila primera. Moskva, Gos. izd-vo
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Soyuza (for Razuvayev). 2. Sekretar' Kiyev-Svyatoshinskogo
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(Collective farms)

GREBTSOV, PP

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tekhn.red.

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FEDOTOVA, A.F., tekhn.red.

[Economic efficiency of capital investments in the reclamation of
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[Who held the land formerly and who owns it now] U kogo zemlia byla
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KOVALENKO, Yevgeniy Ivanovich,; GREBTSOV, P.P., red.; DEYEVA, V.M., tekhn. red.

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[Management of the collective farm] Upravleniye delami kolkhoza.
Moskva, Gos. izd-vo sel'khoz. lit-ry, 1958. 63 p. (MIRA 11:11)
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CHEREMUSHKIN, Sergey Dmitriyevich, kand. sel'skokhozyaystvennykh nauk;
GRIETSOV, P.P., red.; FEDOTOVA, A.F., tekhn. red.

[Investigation and evaluation of soils in the German Democratic
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(Germany, East--Soils)

DOROSHENKO, Petr Yemel'yanovich; GREBTSOV, P.P., red.; SMIRNOVA, Ye.A.,
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(Agriculture)

GREBTSOV, P.P., redaktor; PAVLOVA, M.M., tekhnicheskiiy redaktor.

[Grain harvesting; a collection of articles] Uborka khlebov;
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[Collective farms as owners of agricultural machinery]
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(Farm mechanization)

KOLOSHNIKOV, Grigoriy Vasil'yevich; MITROFANOV, Filipp Ivanovich;
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BOGACHIK, Ivan Alekseyevich; GREBTSOV, P.P., red.; ZUBRILINA, Z.P.,
tekhn.red.

[Principal elements of farming and their economic effectiveness;
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(Agriculture--Economic aspects)

KORYAGIN, Aleksandr Georgiyevich; GREBTSOV, P.P., red.; DEYEVA, V.M.,
tekhn.red.

[Increasing investment in socialist agriculture] Vosproiz-
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GREBTSOV, P.P.

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kand.sel'skokhoz.nauk, nauchnyy sotrudnik; MASHKEVICH, N.G.,
kand.sel'skokhoz.nauk, nauchnyy sotrudnik; KLADCHIKOV, S.M.,
kand.sel'skokhoz.nauk, nauchnyy sotrudnik; NOVOZHILOV, V.F.,
kand.sel'skokhoz.nauk, nauchnyy sotrudnik; ALEKSANDROV, N.P.,
kand.sel'skokhoz.nauk; BUTKEVICH, B.G., kand.sel'skokhoz.
nauk; KORNEV, K.G., kand.sel'skokhoz.nauk; GREBTSOV, P.P.,
red.; PEVZNER, V.I., tekhn.red.; TRUKHINA, O.N., tekhn.red.

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karty. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1960. 78 p.

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dovatel'skiy institut ekonomiki sel'skogo khozyaystva (for
Goryachkin, Rusakov, Mashkevich, Kladchikov, Novozhilov).
(Farm management)

CHESHKOV, Aleksandr Fedorovich, star.nauchn.sotr.,kand.ekon. nauk;GREBTSOV, P.P.,
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(Farm mechanization)

KHLUDENEV, Aleksandr Ivanovich, nauchnyy sotrudnik; GREBTSOV, P.P., red.;
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NOVIKOV, Mikhail Pavlovich; SMIRNOV, G.L.; BUDZKO, I.A.; RADIN, K.S.;
SHLIKHTER, A.A.; GREBTSOV, P.P., red.; GOR'KOVA, Z.D.,
tekhn.red.

[Farm electrification in the U.S.A.] Elektrifikatsiia sel'skogo
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238 p. (MIRA 14:3)
(United States--Electricity in agriculture)

KONKIN, Yuriy Aleksandrovich, kand. ekonom. nauk; GREBTSOV, P.P. , red.;
GUREVICH, M.M., tekhn. red.

[Depreciation of machinery in agriculture; economic principles for
determining the life of tractors and machinery in agriculture] Amor-
tizatsiia tekhniki v sel'skom khoziaistve; ekonomicheskie osnovy
opredeleniia srokov sluzhby traktorov i mashin v sel'skom khoziaistve.
Moskva, Gos. izd-vo sel'khoz. lit-ry, 1961. 174 p. (MIRA 14:7)
(Agricultural machinery) (Tractors) (Depreciation)

BELOZERTSEV, A.G., kand. ekonom. nauk; GULDIN, M.V.; IRODOV, A.V.; KAPLAN, S.M.; KOLYSHEV, P.P.; PAVLOV, P.V.[deceased]; KRYUKOV, V.L., red.; GREBTSOV, P.P., red.; PEVZNER, V.I., tekhn. red.

[Over-all mechanization of the growing and harvesting of corn] Kompleksnaia mekhanizatsiia vozdeleyvaniia i uborki kukuruzy. By A.G. Belozertsev i dr. Moskva, Gos. izd-vo sel'khoz. lit-ry, zhurnalov i plakatov, 1961. 335 p. (MIRA 14:11)

(Corn (Maize)) (Agricultural machinery)

NIKIFOROV, Petr Yefimovich; GREETSOV, P.P., red.; GUREVICH, M.M.,
tekhn. red.; BALLOU, A.I., tekhn. red.

[Performance of machinery at high speeds] Rabota mashin na po-
vyshennykh skorostiakh. Moskva, Izd-vo sel'khoz. lit-ry,
zhurnalov i plakatov, 1962. 111 p. (MIRA 15:3)
(Agricultural machinery)

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KRASNOV, V.S.; OLENEV, V.A.; BELYAYEVSKIY, Yu.I.; GREBTSOV, P.P., red.;
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(Milking)

TYUPKO, Valentin Afanas'yevich, Geory Sotsialisticheskogo Truda; Pri-
nimal uchastiye POPOV, N.I., inzh.; GREBTSOV, P.P., red.;
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[Over-all mechanization in cotton growing] Kompleksnaia mekha-
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(MIRA 15:12)

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(Cotton growing) (Farm mechanization)

ANGEL'YEV, D.D.; BORISENKO, N.P.; UL'YANKIN, I.P.; SOLDATOV, I.N.;
TER-DANIYEL'YAN, V.M.; GREBTSOV, P.P., red.; SOKOLOVA, N.N.,
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[Overl-all mechanization on the "Gigant" State Farm] Kompleks-
naya mekhanizatsiya v sovkhose "Gigant." [By] D.D. Angel'ev.
Moskva, Sel'khozizdat, 1962. 171 p. (MIRA 16:3)

1. Direktor sovkhosa "Gigant" Rostovskoy oblasti (for Angel'yev).
2. Starshiye nauchnyye sotrudniki Severo-Kavkazskogo filiala
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(Farm mechanization)

YASHCHENKO, V.A.; DMITRIYEV, I.N., red.; GREBTSOV, P.P., red.;
TRUKHINA, O.N., tekhn. red.

[Machine milking of cows] Mashinnoe doenie korov, Moskva,
Sel'khozizdat, 1962. 222 p. (MIRA 16:6)
(Milking machines)

KLYUCHNIKOV, Andrey Ivanovich; TOKAREV, Tikhon Matveyevich;
GREBTSOV, P.P., red.; TRUKHINA, O.N., tekhn. red.

[Over-all mechanization of sunflower growing and
harvesting] Kompleksnaia mekhanizatsiia vozdeleyvaniia
i uborki podsolnechnika. Izd.2., ispr. i dop. Moskva,
Sel'khozizdat, 1963. 103 p. (MIRA 16:6)
(Sunflowers)

IVANOV, K.I., red.; BELOTSEKOVSKIY, M.Yu., red.; BOLYSHEV, N.N., red.;
GEDYMIN, A.V., red.; GLAZOVSKAYA, M.A., red.; GOLOVENKO, S.V.,
red.; ZVORYKIN, K.V., red.; IGNAT'YEV, G.M., red.; KUZNETSOV,
G.A., red.; LEBEDEV, N.P., red.; LEBEDEV, P.N., red.;
RAKITNIKOV, A.N., red.; SHEYNIN, L.B., red.; GREBTSOV, P.P.,
red.; YERMAKOV, M.S., tekhn. red.

[Accounting for and the evaluation of agricultural land]
Uchet i otsenka sel'skokhoziaistvennykh zemel'. Pod red. K.I.
Ivanova. Moskva, Izd-vo Mosk. univ., 1963. 385 p.

(MIRA 16:7)

(Farm--Valuation) (Soils--Classification) (Cadasters)

VINOGRADOV, G.M., inzh.; GREBTSOV, P.P., red.; BASHMAKOV, G.M.,
tekhn. red.

[Brief handbook on the construction of rural medical
institutions] Kratkii spravochnik po stroitel'stvu sel'-
skikh lechebnykh uchrezhdenii. Moskva, Medgiz, 1963. 95 p.
(MIRA 16:12)

(HOSPITALS, RURAL--DESIGN AND CONSTRUCTION)

KALINOVSKIY, N.F.; LEVITANUS, A.D.; KHODULIN, Yu.A.; CHICHEV, Yu.F.,
red.; ~~GREBESOV, P.P.~~, red.

[DT-20 tractor] Traktor DT-20. Moskva, Kolos, 1965. 254 p.
(MIRA 18:8)

RUNOV, Boris Aleksandrovich; GLEBTSOV, P.P., red.; MAKHOVA, N.N.,
tekhn. red.; SOKOLOVA, N.N., tekhn. red.

[Electrification of livestock farms in the U.S.A.] Elek-
tromekhanizatsiia zhivotnovodcheskikh ferm v SShA. Moskva,
Sel'khozizdat, 1963. 116 p. (MIRA 17:1)
(United States--Stock and stockbreeding--Equipment and sup-
plies)

(United States--Electricity in agriculture)

CHIBISOV, I.V.; KONDRASHOV, A.D.; GREBTSOV, Ye.M.

Practice of using external water stemming to reduce the amount
of dust in the air during blasting. Bor'ba s sil. 5:151-155 '62;
(MIRA 16:5)

1. Shakhtinskiy nauchno-issledovatel'skiy ugol'nyy institut.
(Blasting—Equipment and supplies) (Mine dusts—Prevention)

GREC/E.

RUNSTUK, Jaroslav, klin. asistent; GREC, Eduard, Vedouci lekar ZZS - GZ .
Brno-Kr. Pole

Improvement of care for workers. Lek listy, Brno 9 no.23:549-550
1 Dec 54.

1. Z I. vnitřní klinik v Brne. Prednosta prof. MUDr M.Stejfa. 2.
Ze savodního zdravotnického střediska GZ - Brno-Kralovo Pole. Vedouci
lekar: MUDr E.Grac.
(INDUSTRIAL HYGIENE,
in Czech.)

GREC, Jadwiga; PIOTRPAWLOWSKA-WEINERT, Maria

On technics, indications and interpretation of pneumoencephalography in children. *Pediat. Pol.* 37 no.3:255-262 '62.

1. Z Zakładu Radiologii PAM w Szczecinie Kierownik: prof. dr med. C. Murczynski i z I Kliniki Pediatrycznej PAM w Szczecinie Kierownik: doc. dr med. J. Starkiewiczowa.

(VENTRICULOGRAPHY in inf & child)

BLMHOVA, J.; DANESOVA, J.; GREC, L.; HAJEK, F.; MATOUSEK, M.; VOJTIK, V.

Occurrence of phenylketomria in Bohemia & Moravia. Cesk. pediat.
14 no.6:499-502 5 June 59.

1. Detska klinika hygienicke fakulty v Praze, prednosta prof. J.
Pisarovicova-Giskova Charita Praha, Stat. psych. lecebna Opava, Stat.
psych. lecebna Dobruška, Stat. psych. lecebna Opatowitz. J.B., Praha 12,
Srobarova 50.

(PHENYLKETONURIC OLIGOPHRENIA, epidemiol.
in Czech. (Cz))

PASNIKOWSKI, Tadeusz; GREG, Stanislaw

Mandibular atrophy (Gorham's disease). Case report. Polski tygod.
lek. 15 no.33:1277-1279 15 Ag '60.

1. Z Kliniki Otolaryngologicznej P.A.M. w Szczecinie; kierownik:
prof. dr med. J.Taniewski i z Zakladu Radiologii P.A.M. kierownik:
prof. dr med. Cs. Murczynski
(MANDIBLE dis.)
(ATROPHY case reports)

MURCZYNSKA, Wanda; GREC, Stefan; KRYGIER, Aleksandra; TUSTANOWSKI, Stanislaw;
DWORAK, Wlodzimierz

Early immunological reactions in tuberculosis studied with bacilli
labeled with the isotope P32. Gruzlica 29 no.10:841-890 0 '61.

1. Z Zakladu Mikrobiologii PAM w Szczecinie Kierownik: prof. dr
W.Murczynska Z Osrodka Izotopowego PAM w Szczecinie Kierownik: prof.
dr C.Murczynski Z Zakladu Anatomii Patologicznej PAM w Szczecinie
Kierownik: prof. dr K.Stojalowski.
(MYCOBACTERIUM TUBERCULOSIS) (PHOSPHORUS radioactive)
(TUBERCULIN REACTION)

MURCZYNSKI, Czesław; MIKOSZA, Henryk; GREG, Stefan; SYPNIEWSKA, Maria,
TUSTANOWSKI, Stanisław; NAROZNIK, Kazimierz.

Use of radioactive ^{131}I for the determination of pulmonary
ventilation disorders. (Abstract no. 42102-111) F164

1. Z Zakładu Radiologii (Kierownik: prof. dr. C. Murczyński) i
z Zakładu Fizyki (Kierownik: dr. H. Mikosza) PAM w Szczecinie.

*

GRAC, STEJAN

DORCZYNSKI, Jan; GRAC, Stejan

Developmental defects of the lungs during infancy. *Pediat. Polska* 32
no.8:875-876 Aug 57.

1. Z Kliniki Pediatrycznej P. A. M. w Szczecinie Kierownik: prof. dr
med. B. Gornicki i z Zakladu Radiologii P. A. M. w Szczecinie Kierownik:
prof. dr med. Cz. Murczynski. Adres: Szczecin, ul. Unii Lubelskiej, Klinika
Pediatryczna A. M.

(LUNGS, **abnorm.**

pathogen. Mechanisms & x-ray manifest. (Pol))

MURCZYNSKI, Czesław; MIKOSZA, Henryk; GREC, Stefan; SYPIEWSKA, Maria;
TUSTANOWSKI, Stanisław; NAROZNIK, Kazimierz

Respiratory function tests with thulium-170. Pol. arch. med.
wewnet. 34 no.6:732-735 '64

1. Z Zakładu Radiologii Pomorskiej Akademii Medycznej w
Szczecinie (Kierownik: prof. dr. Cz. Murczynski) i z Zakładu
Fizyki Pomorskiej Akademii Medycznej w Szczecinie (Kierownik:
dr. inż. H. Mikosza).

RADU, Vasile Gh.; ROGOJANU, Victor; GRECEA, Alexandrina; DAN, Florica

Dynamics of the Collembola fauna of a few kinds of soil and cultures
in the vicinity of Cluj. Studii biol Cluj 11 no.2:277-301 '60.
(EEAI 10:9)

1. Academia R.P.R.-Filiala Cluj, Centrul de cercetari biologice,
Sectia de zoologie sistematica si ecologica. 2. Membru corespondent
al Academiei R.P.R. (for Radu).

(Rumania--Collembola)

RADU, Vasile Gh.; ROGOJANU, Victor; GRECEA, Alexandrina; DAN, Florica
SIMIONESCU, Ion.

Action of ecologic elements on soil fauna dynamics. Studii
biol Cluj 13 no.2:231-258 '62.

1. Membru corespondent al Academiei R.P.R. (for Radu).
2. Academia R.P.R.-Filiala Cluj, Centrul de cercetari biolo-
gice.

RADU, Vasile, Gh.; GRECEA, Alezandrina

Contributions to the study of Coleoptera larvae in the soil.
Pt. 1. Studii biol Cluj 14 no.1:81-87 '63.

1. Center of Biological Research, Rumanian Academy, Cluj
Branch. 2. Corresponding Member of the Rumanian Academy
(for Radu).

RUMANIA / Microbiology. Microorganisms Pathogenic to Humans and Animals. F-5

Abs Jour : Ref Zhur - Biol., No 20, 1958, No. 90964

Author : Ungureanu, C.; Grocoanu, Al.

Inst : Not given

Title : Study of a Strain of Clostridium hystoliticum Isolated from a Sheep Suffering from Edema of the Head

Orig Pub : Probl. epizootol. si microbiol., 1956, 4, 12-21 (Rum.)

Abstract : Cl. hystoliticum and Cl. oedematis maligni were isolated from the transudate of a one year old sheep. Intramuscular injection of an 18-hour broth culture of Cl. hystoliticum into guinea pigs in doses of 1, 0.5, and 0.1 ml killed the animals in 24 - 28 hours. Subcutaneous injections of a broth culture in the forehead region of sheep produced in them a characteristic picture of edema of the head. The administration of antigangrene polyvalent

Card 1/2

GRECEANU, A.

Studies and contributions relative to standardization of safety glass. p.4

ZAREA, Bucuresti, Vol 8, No. 3, Mar., 1956

SO: East European Accessions List (EEAL) Library of Congress, Vol 5, No. 7, July, 1956

GRECEANU, Alexandru E., ing. (Bucuresti)

The Electrotehnica Enterprise, an achievement of People's
Democracy. Electrotehnica 9 no.5:150-151 My '61.

1. Inginer sef la intreprinderea "Electrotehnica", Bucuresti.

~~SECRET~~ GRECEANU, E.

RUMANIA/Cultivated Plants. Cereals.

Abstr Jour: Ref Zhur-Zhiz., No 17, 1958, 7777k.

Author : Iasaci A.; Dulas, V.; Dretas, I.; Greceanu, E.;
Dimitrescu, M.; Miculescu, C.; Pop, O.; Taran, S.;
Biloveanu, V.; Gredinaru, S.; Tisaru, A.; Stancu, Z.;
Bucur, S.; Toldas, E.; Greceanu, E.

Inst :
Title : On the Problem of Dividing Varieties of Winter Wheat
and of Winter and Spring Barley and Oats into
Districts.

Orig Pub: An. Inst. cercetari agron., 1957, 26, No 5, 213-279.

Abstract: Results of a comparative study at experimental
stations of the Scientific-Research Agronomy Insti-
tute of varieties divided into districts and those
newly obtained for 1949-1952. In regard to winter

Card : 1/3

5

Wheat, good results were shown of the variety
divided into districts "Chisna" 117 and the new
variety "Tyrnu Pruzes" 16, divided into
the steppe and forest-steppe regions of Moldavia,
and "Dargan" 77. In the forest zone of both
slopes of the Carpathian and Western Mountains
(valley Apusen) the variety "Chisna" 117 pre-
sented the best results. In the steppe and forest-steppe regions
of the western part of Oltenia, Danub and the
central part of Transylvania - "Ordea" 241, di-
vided into districts, in Bessarabia. As regards a
barley variety, "Chisna" 395 is the best early
maturing and frost resistant, divided into all
zones of cultivation of winter barley. As regards

Card : 2/3

spring barley, the best variety - "Tyrnu Pruzes"
240, is divided into districts in the steppe and
forest-steppe regions of Moldavia, Dobruza,
Munteniya and Oltenia, and "Ordea Margin", which
is divided into districts in all regions of Tran-
sylvania and Danub and in the forest zone of
Moldavia. As regards oats, the best variety -
"Tyrnu Pruzes" 9, is divided into districts in
the steppe and forest-steppe regions of Moldavia,
in Dobruza, Munteniya and Oltenia, in DAN
278, which is divided into districts in the
central part of Transylvania. - A. P. Blyustova.

Card : 3/3

6

Country : Rumania M
 Cultivated Plants. Grains. Leguminous Grains.
 Tropical Cereals.
 Ref Zhur-Biologiya, No. 4, 1959, No. 15598

Author : Grascanu, Elena
 Com. Acad. RPR.
 Quality Research on Promising Districted
 Barley Varieties.

Comm. Acad. RPR, 1957, 7, No.3, 377-381

Summary : Data for 1953-1955 on grain quality testing
 of winter barley variety Chenad 396, 343, 344, 345
 and bifarious barley Cluj 127,
 Targul-Frumos, Hanns-Kargin and Magurele.
 Winter barley and bifarious differ negligibly
 in grain quality. The specific weight flu-
 ctuates around 60 kg/gl, while
 the weight of 1000 grains is 35 to 38 grams
 protein content 13.5 to 14 % and starch con-
 tent 53 to 57 %.

CARD : 1/1

GRECEANU, I...; ILIAN, A.

Biological aspects of the relations between *Penicillium*
chloroleucon Biourge 286 and *Bacillus paracoli* in combined culture.
Stud. cercet. inframicrobiol., Bucur. 6 no.1-2:257-276 Jan-June 55.

(*PARACOLOBACTRUM*

coliforme, relation to *Penicillium chloroleucon* Biourge
286 in combined cultures)

(*PENICILLIUM*

chloroleucon Biourge 286, relation to *Paracolobactrum*
coliforme in combined cultures)

RUMANIA/Chemical Technology. Chemical Products and Their
Application, Part 3. - Drugs. Vitamins. Anti-
biotics.

H

Abs Jour: Referat. Zhurnal Khimiya, No 21, 1958, 71746.

Author : I. Greceanu.

Inst :

Title : Upon the Utilization of Water, in which Maize
Has Been Steeped, for Antibiotic Production.

Orig Pub: Farmacia (Romin.), 1956, 4, No 2, 117-124.

Abstract: No abstract.

Card : 1/1

57

GRECEANU, I.

Cornsteep, an indigenous raw material for the production of antibiotics.
Rumanian M. Rev. 1 no.2:95 Apr-June 57.

(ANTIBIOTICS, prep. of
addition of maize extracts to culture media)

(COHN, extracts
addition to culture media in prep. of antibiotics)

GRECEANU, I.; RAFIROIU, I.; BIANU, S.

The technique of preparing disks with antibiotics and of utilizing them for the preparation of antibiograms.

P. 339 (REVISTA DE CHIMIE) (Bucuresti, Rumania) Vol. 8, no. 5. May 1957

SO: Monthly Index of East European Accessions (EEAI) LC Vol. 7, no. 5. 1958

RUMANIA/Chemical Technology - Chemical Products and Their
Applications - Drugs, Vitamins, Antibiotics.

H.

Abs Jour : Ref Zhur - Khimiya, No 11, 1958, 37202
Author : Miss, A., Greceanu, I., Andronic, I., Ilian A,
Schreiber, H.
Inst : -
Title : New Type of Procaine-Penicillin for Injections.
Orig Pub : Rev Chim, 1957, 8, No 5, 343-344

Abstract : A new type of procaine-penicillin for injections was
obtained by means of introduction of procaine solution
into a flask filled with the ready-for-use penicillin.
Control methods for determination of toxicity and steri-
lity have been established.

Card 1/1

SEROPIAN, E., dr.; GRECEANU, I., dr.

Contributions to the study of the diagnosis of allergic rhinitis.
Med. intern., Bucur 12 no.7:1085-1092 J1 '60.
(HAY FEVER, diagnosis)

SEROPIAN, E., dr.; GRECEANU, I., dr.

The value of cutaneous tests in allergological investigations. Med.
intern., Bucur 13 no.2:249-257 F '61.

1. Lucrare efectuata in Clinica medicala Spitalul "Fundeni", directorul
clinicii conf. C. Paunescu.

(ALLERGY diagnosis) (SKIN pharmacology)

RADU, Vasile Gh.; ROGOJANU, Victor; GRECEA, Alexandrina;
TENT-DAN, Florica

Dynamics of soil coleopteral larvae depending upon the
nature of soil and vegetation. Studii cerc biol anim
14 no.1:65-78 '62.

1. Membru corespondent al Academiei R.P.R., si membru al
Comitetului de redactie, "Studii si cercetari de biologie;
Seria biologie animala (for Radu).

SEROPIAN, E., dr., candidat in stiinte medicale; GRECEANU, I., dr.
BELOIU, D., dr. (Bucuresti)

Criteria for evaluation of diagnostic methods for determining
the etiology of some respiratory allergies. Med. intern.
(Bucur.) 16 no.12:1465-1470 D '64

1. Lucrare efectuata in Serviciul de boli alergice, spitalul
"Dr.C.Davilla".

SEROPIAN, E., dr.; BELOIU, D., dr.; GRECEANU, I., dr.

Exo-allergy to a posterior pituitary hormone preparation in cases of diabetes insipidus. Med. intern. (Bucur.) 16 no.12: 1489-1492 D '64

1. Lucrare efectuata in Serviciul de boli alergice, Spitalul "Dr.C.Davilla", Bucuresti.

SEROPIAN, E.; GRECEANU, I.; BELOIU, D.

Criteria for appraising the value of diagnostic methods used for determining the etiology of respiratory allergoses. Rumanian med. rev. 19 no.3:29-33 J1-S '65.

GRECEANU, Mihaela, chim. (Bucuresti); ANTOHI, Constatin, ing. (Bucuresti);
MARCUS, Bruno (Bucuresti)

Technology of glassy enamel-covered coil resistances. Electrotehnica
11 no.2:73-76 F '63.

1. Cercetator principal la Institutul de Cercetari Electrotehnice
(for Greceanu). 2. Inginer principal la Institutul de Cercetari
Electrotehnice (for Antohi). 3. Sef de laborator de Cercetari
Electrotehnice (for Marcus).

GRECENKO, A.

Potential characteristics, basis for designing and evaluating
tractors. p. 1. SBORNID. RADA MECHANISACE A ELEDTRIFIKACE
ZEMEDELSTAVI A LESNICTVE. Praha. Vol. 28, no. 1, Apr. 1955

SOURCE: East European Accessions List (EEAL) Library of Congress
Vol. 5, No. 7, July 1956.

GRECENKO, A.

Examination of wheel tractors according to traction characteristics.

P. 145, (Sbornik Rada Mechanisace A Elektrifikace Zemedelstvi) Vol.30, no.3, June 1957
Praha, Czechoslovakia

SO: Monthly Index of East European Acessions (EFAI) Vol. 6, No. 11 November 1957

GRECENKO, ALEXANDR.

"Zaklady teorie a vypoctu traktoru. [Vyd. 1.] Praha, Statni pedagogicke nakl., 1958. 303 p. (Ucebni texty vysokych skol) [Principles of theory and calculations concerning tractors; a university textbook, 1st ed. bibl., diagrams, graphs, tables]"

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, no. 7, July 1958

GRECHENKO, A.

AGRICULTURE

PERIODICALS SEORNIK, RADA MERCHANISAGE A ELEKTRIFIKACIJE SENEDELSTVI.
VOL. 31, no. 3/4, Aug. 1958

Grechenko, A. Relations between the design parameters of wheeled tractors
and their traction efficiency. p. 125.

Monthly List of East European Accessions (EEAL), LC, Vol. 3, no. 5,
May 1959, Unclass.

LEIBOVICI, I.; GREGESCU, M.

On the principle of ionometrical methods in gamma and roentgen radiation metrology. Studii cerc fiz 14 no.1: 99-112 '63.

1. Institutul de fizica atomica Bucuresti.

✓3517. The anti-inflammatory effect of metacyl and pentoxyl.
I. I. Grech *Farmakol. i Toksikol.* 1954 17 36-39, Referat Zh. Biol.
1956, Abstr. No. 79341. —Inflammation was produced in rabbits
by immersing the distal half of the ear in hot water (53°) for 3 min.
In experiments in which metacyl (I) and pentoxyl (II) were adminis-
tered for the first time 2 hr. after scalding, there was a decrease in
oedema on administration of I for 2 hr. and of II for 9 hr. from the
moment of scalding. An inhibiting effect on the development of
the inflammatory oedema was produced on administering the
prep. after removal of the ear from the hot water (after 10 min).
I and II showed an antipyretic effect (more pronounced for II).
In animals which had received I or II, healing took 20—21 days and
23 days in controls. I and II favoured preservation of the tissue of
the burned parts. (Russian)
F. McKenney

GRECH, V.I., inzh.; KOZLACHKOVA, N.E., inzh.; SEMTANICH, V.S., inzh.

Conference of young hydraulic engineers of the All-Union Trust for the
Designing and Planning of Hydroelectric Power Plants. Gidr, stroi. 31
no.2:62-63 F '61. (MIRA 14:3)
(Hydroelectric power station)

COUNTRY : USSR
CATEGORY :

M-6

ABST. JOUR. : RZBiol., No. 1/2, 1959, No. 87109

AUTHOR : Molostov, A. S.; Grechanenko, A. Ya.

INST. : Zhitomir Agricultural Institute

TITLE : Experimental Production of Lupine Seed in
Close-Row and Wide-Row Plantings with Appli-
cation of Organomineral and Mineral *

ORIG. PUB. : Nauchn. tr. Zhitomirsk. s.-kh. in-t, 1957,
4, 99-105

ABSTRACT : Experiments on production of seed of Blue
lupine 149 (*Lupinus angustifolius*) and of White Seed Seed
lupine (*Lupinus luteus*) were conducted in the Zhitomir-
skaya Oblast', at the collective farm "Pamyati V. I.
Lenina" and the experiment station of the agricultural
institute. Higher yields of seed were obtained with close
row planting, 15 cm apart, at sowing rate: blue lupine
149-170 kg/hectare, White Seed lupine 140 kg/hectare. The
absolute weight and yield of seed per single plant were
higher in wide-row plantings. The most effective ferti-
lizers were found to be powdered P_2 and high-percentage
potassium salt (60 kg/hectare of active ingredient) with

CARD: 1/2

* Fertilizers (Short Communication).

Country : USSR
CATEGORY :

1-6

ABS. JOUR. : PZBiol., No. ⁸195⁸, No. 87109

AUTHOR :
INST. :
TITLE :

ORIG. PUB. :

ABSTRACT : shredded peat, in a proportion of 4-5 parts
by weight per 1 part by weight of mineral fertilizer.
A. A. Shchibrya.

CARD: 2/2

USSR / Cultivated Plants. Fodder Grasses and Edible Roots. M

Abs Jour : Ref Zhur - Biologiya, No 6, 1959, No. 24933

Author : Grechanenko, A. Ya.

Inst : Zhitomir Agricultural Institute

Title : On the Problem of Lowering the Alkaloid
Content in Slightly Alkaloid Fodder Lupine

Orig Pub : Nauchn. tr. Zhitomirsk. s.-kh. in-t, 1957,
No 4, 107-109

Abstract : Results of the experiments in 1951-1954.
It was established that seeds of the marbled
dye, produced by plants with flowers of
anthocyan color, are alkaloidal. The
genesis of alkaloidal seeds is explained by
the rarefaction of the plants growing in
wide rows with the possibility of cross

Card 1/2

USSR / Cultivated Plants. Fodder Grasses and Edible
Roots.

M

Abs Jour : Ref Zhur - Biologiya, No 6, 1959, No. 24933

pollination. It is recommended to cultivate
fodder lupine in each separate farm of only
one variety; in the period of budding, to
pollinate carefully the plants with the
flowers of the anthocyan coloring. --
N. G. Bul

Card 2/2

GRECHANENKO, A. Ya.: Master Agric Sci (diss) -- "The harvest and quality of lupine seed as a function of methods of growing them under the conditions of the Poles'ye". Zhitomir, 1958. 24 pp (Min Agric Ukr SSR, Ukr Acad Agric Sci), 120 copies (KL, No 6, 1959, 138)

ACCESSION NR: AP4042865

S/0114/64/000/007/0041/0045

AUTHOR: Levina, M. Ye. (Candidate of technical sciences, Docent);
Romanenko, P. A. (Candidate of technical sciences); Grechanichenko, Yu. V.
(Engineer)

TITLE: Calculation of the distribution of stream parameters in a turbine stage
with an allowance for radial acceleration

SOURCE: Energomashinostroyeniye, no. 7, 1964, 41-45

TOPIC TAGS: turbine, turbine blade, turbine stage, turbine engine

ABSTRACT: The article is a further development of P. A. Romanenko's earlier
work (Izv. AN SSSR. Energetika i avtomatika, 1959, no. 6). A method is set
forth for calculating the distribution of cylindrical-stream parameters in a
turbine stage with an allowance for the region occupied by the rotor blades and the
ring space beyond these blades. Three variants of the stages of an experimental

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ACCESSION NR: AP4042865

air turbine were calculated by the above method with a view toward investigating the effect of the movable-blade twist on the flow beyond the nozzle row. The blade length, 81.5 mm, and outside diameter, 500 mm, were kept constant; the twist pattern and nozzle-diaphragm width were varied. The latter parameter was found to have the strongest influence on the stream distribution. Orig. art. has: 5 figures and 27 formulas.

ASSOCIATION: Khar'kovskiy politekhnicheskiy institut im. V. I. Lenina
(Khar'kov Polytechnic Institute)

SUBMITTED: 00

ENCL: 00

SUB CODE: PR

NO REF SOV: 006

OTHER: 001

Cord 2/2

ACC NR: AT7003562

(N)

SOURCE CODE: UR/3240/66/000/001/0054/0059

AUTHORS: Grechanichenko, Yu. V.; Levina, M. Ye.

ORG: Kharkov Polytechnic Institute (Khar'kovskiy politekhnicheskii institut)

TITLE: Calculation of the three-dimensional double-parameter flow in a stage with arbitrary meridional boundaries

SOURCE: Kharkov. Politekhnikheskiy institut. Energeticheskoye mashinostroyeniye, no. 1, 1966. Teploobmen i gazodinamika (Heat transfer and gas dynamics) 54-59

TOPIC TAGS: ^{fluid, uniform flow, fluid flow,} turbine, turbine stage, compressible ~~flow~~, axisymmetric flow/ KhTGZ K-300-240, turbine

ABSTRACT: The development and techniques of a previous work by M. Ye. Levina, P. A. Romanenko, and V. I. Grechanichenko (Raschet raspredeleniya parametrov potoka v turbinnoy stupeni s tsilindricheskimi granitsami. Zh. Energomashinostroyeniye, 1964, No. 8) are generalized for calculating the parameters of a compressible fluid, with variable parameters at the input of a turbine stage with noncylindrical profile. The previous assumptions of a uniform helical flow in the gap and of a parabolic dependence of C_r with radius are dispensed with. The subcritical flow of a fluid in a turbine stage, assuming axially symmetric flow, is described by the Euler equation projected on the r axis

$$\frac{1}{r} \frac{\partial p}{\partial r} = \frac{C_r^2}{r} - C_r \frac{\partial C_r}{\partial r} - C_r \frac{\partial C_r}{\partial x}.$$

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ACC NR: AT7003562

the energy equation

$$C_{ps}T_0 = \frac{k}{k-1} \frac{P}{P_0} + \frac{C^2}{2} + uC_u + uC_{ps}$$

the process equation

$$\frac{P}{P_0} = \text{const.}$$

the continuity equation in differential form

$$\frac{\partial}{\partial r} [\rho(r-\tau)C_r] + \frac{\partial}{\partial z} [\rho(r-\tau)C_z] = 0.$$

where τ is the total blade thickness in the circumferential direction, and by the kinematic relation between the velocity projections

$$C_z = C_r \text{ctg} \beta + u = C_r \text{ctg} \alpha.$$

The velocity components are expressed as partial derivatives of a function which is found in the form of a series. Calculations were carried out for a stage with the geometrical characteristics of the last stage of turbine KhTZ K-300-240. The calculated meridional flow lines and the distribution of velocity components and pressure along the radius are shown graphically. Orig. art. has: 15 equations and 4 diagrams.

SUB CODE: 21, 20/ SUBM DATE: none/ ORIG REF: 006

Card 2/2

GRECHANIK, L. A.

"Effect of Small Additions of Certain Compounds on the Properties of Glass."
Sub 24 Dec 51, Moscow Order of the Lenin Chemicotechnological Inst imeni
D. I. Mendeleev

Dissertations presented for science and engineering degrees in
Moscow during 1951.

SO: Sum. No. 480, 9 May 55

GRECHANIK, L.A.

USSR /Chemical Technology. Chemical Products
and Their Application

I-12

Silicates. Glass. Ceramics. Binders.

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 31497

Author : Matveyev M.A., Koyfman I.S., Grechanik L.A.

Title : Vibratory Comminution of Sand and Its Use in the
Making of Borosilicate Glass

Orig Pub: Steklo i keramika, 1956, No 11, 3-9.

Abstract: Grinding of sand (S) was effected in M-10 and
M-200 vibratory mills. Degree of dispersion of
S was evaluated on the basis of screen analysis
data and specific surface values. It was found
that most effective is grinding of S during the
first 1.5 hours, when a specific surface of
3300 cm²/g is attained with a residue on the

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screen of 10000 apertures/cm² (5%). Comparative study of vibratory grinding using different grinding bodies has shown that greatest output capacity of the mill is attained with steel balls, which are most wear-resistant but cause contamination of the S with metallic Fe. Milling with porcelain and glass balls decreases the output by 2-3 times. Use was also made of glass balls manufactured at the same plant; cost of the balls expended in vibratory comminution of 1 ton of sand is 2 times less than that of porcelain balls. For glass in which a Fe₂O₃ content of more than 0.1% is permissible, milling of S

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can be carried out in a housing without an internal rubber lining, which is of great practical importance since the life of the lining does not exceed 150 hours of operation. To reduce dust formation and improve mixing of the batch it is advantageous to humidify the sand 5 minutes prior to termination of the mixing. Early moistening of the S impairs the degree of comminution. Output of a continuous operation unit, with a feed of the aero-mixture under the milling bodies, is 1.7 times higher than that of an intermittent operation mill, yielding a product of the same degree of dispersion. Most

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advantageous is a grinding of S to a specific
surface of 2000 cm²/g, which is attained in a
M-200 mill within 1 hour.

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~~ORCHANI, L.A.~~

Effect of Me_2O and Al_2O_3 oxides on the electric conductivity of glass
and its dependence on the composition. Zhur. prikh. khim. 31 no.8:
1164-1170 Ag '58. (MIRA 11:10)

1. Tsentral'naya nauchno-issledovatel'skaya laboratoriya elektro-
tekhnicheskogo stekla.
(Glass--Electric properties)

GRECHANIK L.A.

15(2)
 AUTHOR: Bone Given
 TITLE: Glass Science at the VIII Mendeleev Congress (Munka o stebie na VIII Mendeleevskom s'ezide)
 PERIODICAL: Steble i kermatika, 1959, Nr 5, pp 1-4 (USSR)
 ABSTRACT: In the beginning a proclamation of the Tak 1923 to the personnel of the building material industries for a qualitative and quantitative increase of production is mentioned. The Congress took place in Moscow in the second half of March of the current year and was devoted to the 125th anniversary of the great scholar's birthday. Outstanding chemists of the Soviet Union and the People's Democracies attended the Congress. The principal problems of the development of chemistry were discussed at the plenary meetings and the meetings of the 18 Congress sections. Professor L. I. Kitagorodskiy opened the meetings of the sub-section for glass and gave a survey of the stages of development of Soviet glass production. He also discussed the problems of the field of glass technology. However, the following lectures were held: Doctor Foranik (People's Republic of Hungary) investigated the structure of the top-layers of glass;
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A. I. Ivantitskiy (LTI Inst. Invent.) discussed the formation of a film of supercrystalline phase from the glass-like phase. V. V. Kozlov and G. D. Karapetian (GOI) reported on absorption spectra, luminescence, and photochemical properties of certain glass types; A. G. Vlasov (GOI) reported on the quantitative reciprocal relations between ordered and disordered glass phases; Ye. A. Poray-Koshits, Institut Khimii silikatov AN SSSR (Institute of Silicate Chemistry of the AF USSR) discussed the reasons for the disagreement on the problem of the structure of glass-like substances; Professor G. K. Moravskiy, E. I. Lunich, and M. L. Mikhomva, Institut stebly (Glass Institute) reported on the investigation of the glass structure by the method of optical birefringence; Ye. V. Kuznetsov (GOI) discussed the new method of high-frequency annealing of the melting of silicates by means of electric current; Ye. G. Stepanov reported on stream-magnetic glasses without lead and boron for failure and molten which have been developed in the Gosdarsvennyy mekhaniko-izobrazitel'skiy keramicheskii institut (State Scientific Research Institute of Ceramics); L. S. Yastrebova, and V. A. Molchanov (GOI) discussed the role played by the surface protection film in the destruction of silicate glasses;

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A. I. Ivantitskiy (GOI) discussed the coloring characteristics and the technology of phosphate glasses; O. V. Magurin (LTI) reported on the mobility of sodium ions in glass types of the system Na₂O-Na₂SiO₃; Z. A. Mosura (Vil Stroykermika) discussed the process of subduing the glasses by lead oxide and silicon; L. G. Mel'nikova, Khar'kovskiy politekhnicheskii institut (Khar'kov Polytechnic Institute) reported on silicate formation and sintering processes in the briquetted glass layer; K. M. Zakharenko investigated the types of glass; A. M. Zakharenko (Glass Institute) reported on the determination of impurities in glass by spectroscopic analysis; A. V. Zakharenko, Ye. M. Orlova (Glass Institute) reported on the use of electrode glass which has been devised by them. Ye. V. Bogdanov (Glass Institute) discussed the kinetics of the formation of crystallization centers in photo-sensitive types of glass; Z. M. Byrtikova (Glass Institute) discussed the results of the investigation of the tendency of phosphatic systems towards glass formation; L. A. Grechansk, E. V. Zakharenko, and V. G. Karpezhnikov (LTI) reported on the investigation of types of semiconducting oxide glass on the basis of V₂O₅; E. V. Solov'eva, L. A. Grechansk, I. V. Shpakova, and Ye. A. Zakharenko (LTI) discussed the production of semiconducting films on types of glass which contain components easily to be regenerated.

9.4300 (1035, 1138, 1143)

S/181/60/002/009/015/036
B004/B056

AUTHORS: Grechanik, L. A., Petrovykh, N. V., Karpechenko, V. G.

TITLE: Synthesis and Investigation of Vitreous Oxide Semiconduc-
tors in Systems of the Type $VO_{2.5} - PO_{2.5} - RO_x$

PERIODICAL: Fizika tverdogo tela, 1960, Vol. 2, No. 9, pp. 2131 - 2139

TEXT: On the basis of published data, part of which are given in Table 1, the authors drew the conclusion that in the case of a complex composition, more stable glasses with different semiconducting properties are obtained. In the system $VO_{2.5} - PO_{2.5}$, where $VO_{2.5} > 50\%$, $PO_{2.5} = 0 - 50\%$, they substituted part of the $VO_{2.5}$ by 0 - 50% RO_x ($LiO_{0.5}$, $NaO_{0.5}$, $KO_{0.5}$, $CsO_{0.5}$, CuO , $AgO_{0.5}$, BeO , MgO , CaO , SrO , BaO , ZnO , CdO , HgO , $LaO_{1.5}$, CeO_2 , $BO_{1.5}$, $AlO_{1.5}$, TiO_2 , ZrO_2 , SiO_2 , GeO_2 , SnO_2 , PbO , $AsO_{1.5}$, $SbO_{1.5}$, $BiO_{1.5}$, $CrO_{1.5}$, WO_3 , SeO_2 , MnO_2 , $FeO_{1.5}$, CoO , NiO , UO_3). For the ternary systems, the regions of glass formation are given in Fig. 1. Glasses

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Synthesis and Investigation of Vitreous Oxide Semiconductors in Systems of the Type $VO_{2.5} - PO_{2.5} - RO_x$ 84074
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with $PO_{2.5} = 20\%$ and an RO_x content of 10, 20, and 30% were examined as to their technical properties. They all melted at low temperatures (800-1200°C), had a low viscosity, tended toward crystallization, and hardened quickly. An addition of $AsO_{1.5}$, WO_3 , $SbO_{1.5}$ improved their properties. The coefficient of expansion was $(60 - 150) \cdot 10^{-7} \text{ deg}^{-1}$, the softening temperature was between 250 and 350°C, the elastic modulus was $(3.9 - 5.4) \cdot 10^{-5} \text{ kg/cm}^2$. The glasses that were non-transparent in visible light were transparent to infrared within the region of 2 - 5 μ with a maximum at 4 μ (Fig. 2). Measurements were carried out by means of an MKC-14 (IKS-14) spectrograph. The electrical conductivity σ was measured by means of an MTB (MTV) measuring bridge in the region of 20 - 250°C. As shown by Fig. 3, the equation $\sigma = \sigma_0 \exp(-\Delta E/2kT)$ holds, no break occurring such as is caused by impurities in crystalline semiconductors. With increasing RO_x content, σ decreases according to the equation $\sigma = \sigma_{init} \exp(-k_1 C_{RO_x})$ (1) (Fig. 4). The extrapolation of the straight

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